

#9



ENTERED

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/784,554B

DATE: 04/24/2002 P.6  
TIME: 15:50:31

Input Set : A:\seq.ST25.txt

Output Set: N:\CRF3\04242002\I784554B.raw

```

3 <110> APPLICANT: Schnorr, Kirk
4      Jorgensen, Per Lina
5      Schulein, Martin
7 <120> TITLE OF INVENTION: FAMILY 44 XYLOGLUCANASES
9 <130> FILE REFERENCE: 10017.200-US
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/784,554B
C--> 11 <141> CURRENT FILING DATE: 2001-02-16
11 <160> NUMBER OF SEQ ID NOS: (16)
13 <170> SOFTWARE: PatentIn version 3.1
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 4059
17 <212> TYPE: DNA
18 <213> ORGANISM: Paenibacillus polymyxa
20 <400> SEQUENCE: 1
21 atgagggcgca aaaatagtag taatcttttg ttcaaacggt ccaaattggct gcctgtcgctc      60
23 atggcctgca cgatgatagt aggggggggct ttacctgctc cagctgtggt tcacgggtcaa      120
25 acggcaaaga ctattactat taaagtagat acattcaagg atcgtaagcc tattagccct      180
27 tatatatacg gtacaaatca ggatttgcca ggcgatgaaa atatggctgc cagacgactt      240
29 ggtggcaacc gaatgaccgg atacaactgg gaaaacaata tgtccaatgc aggaagtgc      300
31 tggcagcaat ctacgcgataa ctatttatgc agtaatggtg gcctgacaca agccgaatgt      360
33 gaaaagccag gagcgtgac gacttcgttt catgaccaat cgctgaagct tggcacttat      420
35 tctttagtta cgttgccgat ggccggttat gtggctaagg atggaaacgg aagtgtgcag      480
37 gaaagcgaaa aggcccttc cgctcgtttg aatcaggctg taaacgcaa aaatgcaccg      540
39 ttccaactac agcctgatct gaatgacaat cgggtctatg tggatgagtt cgtccatttt      600
41 ttagtgaaca agtacggcac tgcttcaaca aaggcggggg tgaaaggata tgccctcgac      660
43 aatgaaccgg ctctctggtc gcatacgcac ccacgcattc atggtgaaaa agtcggagcg      720
45 aaagagttgg tagaccggtc agtcagttta tccaaagctg tgaaagcgat tgacgcgggg      780
47 gcagaggttt ttggcccggg tctttacgga tttggcgctc ataaagatct tcaaactgca      840
49 cctgattggg actctgtaaa aggcaattat agctggttcg tagactatta cctggatcaa      900
51 atgcgcctta gctcgcaagt cgaaggcaag agattgctgg atgtattcga cgtacactgg      960
53 tatcccgaag cgatgggcgg aggcatacga attacgaatg aggtaggcaa tgacgaaacg      1020
55 aagaaagcca gaatgcaggc acctcgccacc ttgtgggacc cgacctataa ggaagatagt      1080
57 tggatcgctc aatggaacag cgagtttttg cccatactac ctcgattgaa gcagtcgggtg      1140
59 gataaatatt atccgggaac caagctggca atgaccgagt atagctatgg cggcgaaaat      1200
61 gatatttccg gcggtgattgc gatgaccgat gtgctgggta tcttgggcaa aaatgatgtt      1260
63 tatatggcaa actactggaa gctaaaggat ggtgtcaaca actacgtag tgccgcttac      1320
65 aagctttatc gcaattatga cggaaaaaac tctactttcg gtgataccag tgttagtgcg      1380
67 caaacatcgg atattgtcaa tagctcggtc catgcttctg taacgaatgc atccgacaaa      1440
69 gaactgcata tcgttgtcat gaataaaagc atggacagcg cattcgacgc ccaatttgat      1500
71 ctttccggcg cgaagactta catttccggt aaagtatggg ggttcgataa aaacagctcg      1560
73 caaattaaag aagcagcgcc aatcacgcaa atttcaggca accgttttac ttataccgta      1620
75 ccgcctttga cggcatatca cattgtgctg actactggca atgacacgct tccagtggaa      1680
77 ggtcctgaaa gctttaagct gaaagctgag gctggtgatg ggaaagtcca tttatcctgg      1740

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/784,554B

DATE: 04/24/2002

TIME: 15:50:31

Input Set : A:\seq.ST25.txt

Output Set: N:\CRF3\04242002\I784554B.raw

```

79 gatgcttcca gcgagttgt aggatacagc gtacagcggg caacagatga aaacggccct 1800
81 ttcaactgctg tagcatccaa cttgaccgaa acgtcttata cggatactaa cgtgacaaac 1860
83 ggtacttcat actattacaa agtaaccgcc aaaaccaata agggatcgag cgaatccaat 1920
85 attttgaaag cgttccgaa gatgcctgta aacgggtcccg ctgctatga agccgaagaa 1980
87 ggcacgctga aggaaccat tgtggaatcc agcgggaccg gctactccg tgctggttat 2040
89 gtaacgaatt tccacaatcc aggggattct ctgacgatga cgattcaggc tcccacggca 2100
91 ggcttgtaaca atcttacaat cggctaccgt tctcctcatg atgacaaacg caccaatttc 2160
93 tcattaaacg gcaaagcgtt tggcgaactg ctgcttaaga aaacggctga ttttaaagaa 2220
95 acttccggag gcaagggtct gttgaatgca ggcgcgaata cgatcagttt tgaaacaggc 2280
97 tggggctggt acgatatcga ctacgtcaga ctggagcctg ccgctgaccg cccacctcat 2340
99 gcggtaacca aaacgcttac caatccgaat gcgacggtag aagcaaaagc attgatgaac 2400
101 tatctggttg atcaatacgg gaagaatatg ctctctggtc aagaggaaat aaacgaaatt 2460
103 gatttgcttc aagccaatgt aggtaaaaag ccggcgattg cagcgcttga cctgatcgac 2520
105 tattcgccaa gcagagcggg acacgggtctt agttccacag aggcagaaaa ggcgattgca 2580
107 tgggataagc aaggggggat cgttaccttt gcatggcact ggaacgcacc gaaaggtctg 2640
109 atcgatacgc agggaaaaga atggtggaga ggcttctatg ccgattcaac cacattcgat 2700
111 atagaatatg cgatgaatca tccagagtcc gaagattata aattacttat tcgcgacatc 2760
113 gatgtgattg cagggcaatt gaagaagttg caggatgcga aggttcctgt cctgttccgt 2820
115 cctttgcacg aagcgggaag aaaatggttc tgggtggggcg ccaaaggtcc tgagcctgtt 2880
117 aaaaagctgt atattttaat gcacgaccgt ttgacgaatg tgcacaaatt gaacaatctg 2940
119 atttgggtat ggaattctgt tgctccggtg ttgtatccgg gagacgagta tgtggatatt 3000
121 ttgagctttg actcttatcc gcaagcaggt gattacagcc cgcaaatttc aaaatacga 3060
123 gaccttggtg cattgggcaa ggacaaaaag ctagtgtcca tgagcgaaaa tggaccgatc 3120
125 ccggaccctg atttgatgaa ggcgtatcaa gctcattgga gctggttcgc tacatggtat 3180
127 ggagattttg tgagagacgg caaacaaaac agccttgagc atctgaaaaa agtgtataat 3240
129 catccgaacg tcattacgct ggatgagctc ccaacgaact taaaaacgta tggcattact 3300
131 gagcagccgt ccgtaccggg cagcttcacg ctgaacgctg cgggtgaaac ggcgaaagta 3360
133 tcgctaagct ggacagcatc ggcgaatgcy aaaagctatg aagtgaagcg ttcgacgact 3420
135 gaaaacggcg cgttcgccac tgtagcagat gatgtatatg gcagtagcta caccgacaca 3480
137 gctgtaacgg cagatacagc gtactactac caagtcgtag cgaagaacga tgcaggacag 3540
139 acgctgtcga acacggctag cgcaatgccg aaagcggata ctcagcagcc gacgacagga 3600
141 ctgctgtctc aatatcgcac agcagatact aaggtgaacg ataatacct caatccgcaa 3660
143 ttccaaattg taaacaaagg cacaacctcc ataccgatca acgagttgaa aattcgctac 3720
145 tactacacaa tcgacgggtg ccgtgagcag accttcaact gcgactatgc gacgctgagc 3780
147 tgctcaaagc tgaacggtaa actggttaaa atggagaagg ctgcaacggg tgccgattat 3840
149 tatttggaag tcagtttcaa ttcggatgca ggcgtgttag cacctggagg aagcacgggc 3900
151 gatatccaaa ccggtattca taagacagac tggtcgaact ataacgaaag tgacgattat 3960
153 tcgtataaag gcacgcaaac ctcatctgca gatcatccta aagttacctt gtatcataac 4020
155 ggcgtacttg tttggggaac cgagccgaca gctaattaa 4059

```

158 &lt;210&gt; SEQ ID NO: 2

159 &lt;211&gt; LENGTH: 1352

160 &lt;212&gt; TYPE: PRT

161 &lt;213&gt; ORGANISM: Paenibacillus polymyxa

163 &lt;400&gt; SEQUENCE: 2

165 Met Arg Ala Lys Asn Ser Ser Asn Leu Leu Phe Lys Arg Ser Lys Trp

166 1 5 10 15

169 Leu Pro Val Val Met Ala Cys Thr Met Ile Val Gly Gly Ala Leu Pro

170 20 25 30

173 Ala Pro Ala Val Val His Gly Gln Thr Ala Lys Thr Ile Thr Ile Lys

PATENT APPLICATION: US/09/784,554B

TIME: 15:50:31

Input Set : A:\seq.ST25.txt

Output Set: N:\CRF3\04242002\I784554B.raw

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 174 |     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |  |
| 177 | Val | Asp | Thr | Phe | Lys | Asp | Arg | Lys | Pro | Ile | Ser | Pro | Tyr | Ile | Tyr | Gly |  |
| 178 |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |  |
| 181 | Thr | Asn | Gln | Asp | Leu | Ala | Gly | Asp | Glu | Asn | Met | Ala | Ala | Arg | Arg | Leu |  |
| 182 | 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |  |
| 185 | Gly | Gly | Asn | Arg | Met | Thr | Gly | Tyr | Asn | Trp | Glu | Asn | Asn | Met | Ser | Asn |  |
| 186 |     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |  |
| 189 | Ala | Gly | Ser | Asp | Trp | Gln | Gln | Ser | Ser | Asp | Asn | Tyr | Leu | Cys | Ser | Asn |  |
| 190 |     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |  |
| 193 | Gly | Gly | Leu | Thr | Gln | Ala | Glu | Cys | Glu | Lys | Pro | Gly | Ala | Val | Thr | Thr |  |
| 194 |     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |  |
| 197 | Ser | Phe | His | Asp | Gln | Ser | Leu | Lys | Leu | Gly | Thr | Tyr | Ser | Leu | Val | Thr |  |
| 198 |     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |  |
| 201 | Leu | Pro | Met | Ala | Gly | Tyr | Val | Ala | Lys | Asp | Gly | Asn | Gly | Ser | Val | Gln |  |
| 202 | 145 |     |     |     | 150 |     |     |     |     |     | 155 |     |     |     |     | 160 |  |
| 205 | Glu | Ser | Glu | Lys | Ala | Pro | Ser | Ala | Arg | Trp | Asn | Gln | Val | Val | Asn | Ala |  |
| 206 |     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |  |
| 209 | Lys | Asn | Ala | Pro | Phe | Gln | Leu | Gln | Pro | Asp | Leu | Asn | Asp | Asn | Arg | Val |  |
| 210 |     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |  |
| 213 | Tyr | Val | Asp | Glu | Phe | Val | His | Phe | Leu | Val | Asn | Lys | Tyr | Gly | Thr | Ala |  |
| 214 |     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |  |
| 217 | Ser | Thr | Lys | Ala | Gly | Val | Lys | Gly | Tyr | Ala | Leu | Asp | Asn | Glu | Pro | Ala |  |
| 218 |     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |  |
| 221 | Leu | Trp | Ser | His | Thr | His | Pro | Arg | Ile | His | Gly | Glu | Lys | Val | Gly | Ala |  |
| 222 | 225 |     |     |     | 230 |     |     |     |     |     | 235 |     |     |     | 240 |     |  |
| 225 | Lys | Glu | Leu | Val | Asp | Arg | Ser | Val | Ser | Leu | Ser | Lys | Ala | Val | Lys | Ala |  |
| 226 |     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |  |
| 229 | Ile | Asp | Ala | Gly | Ala | Glu | Val | Phe | Gly | Pro | Val | Leu | Tyr | Gly | Phe | Gly |  |
| 230 |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |  |
| 233 | Ala | Tyr | Lys | Asp | Leu | Gln | Thr | Ala | Pro | Asp | Trp | Asp | Ser | Val | Lys | Gly |  |
| 234 |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |  |
| 237 | Asn | Tyr | Ser | Trp | Phe | Val | Asp | Tyr | Tyr | Leu | Asp | Gln | Met | Arg | Leu | Ser |  |
| 238 |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |  |
| 241 | Ser | Gln | Val | Glu | Gly | Lys | Arg | Leu | Leu | Asp | Val | Phe | Asp | Val | His | Trp |  |
| 242 | 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     | 320 |     |  |
| 245 | Tyr | Pro | Glu | Ala | Met | Gly | Gly | Gly | Ile | Arg | Ile | Thr | Asn | Glu | Val | Gly |  |
| 246 |     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |  |
| 249 | Asn | Asp | Glu | Thr | Lys | Lys | Ala | Arg | Met | Gln | Ala | Pro |     |     |     |     |  |

## RAW SEQUENCE LISTING

DATE: 04/24/2002

PATENT APPLICATION: US/09/784,554B

TIME: 15:50:31

Input Set : A:\seq.ST25.txt

Output Set: N:\CRF3\04242002\I784554B.raw

```

273 Asn Asn Tyr Val Ser Ala Ala Tyr Lys Leu Tyr Arg Asn Tyr Asp Gly
274           435                      440                      445
277 Lys Asn Ser Thr Phe Gly Asp Thr Ser Val Ser Ala Gln Thr Ser Asp
278           450                      455                      460
281 Ile Val Asn Ser Ser Val His Ala Ser Val Thr Asn Ala Ser Asp Lys
282 465                      470                      475                      480
285 Glu Leu His Leu Val Val Met Asn Lys Ser Met Asp Ser Ala Phe Asp
286           485                      490                      495
289 Ala Gln Phe Asp Leu Ser Gly Ala Lys Thr Tyr Ile Ser Gly Lys Val
290           500                      505                      510
293 Trp Gly Phe Asp Lys Asn Ser Ser Gln Ile Lys Glu Ala Ala Pro Ile
294           515                      520                      525
297 Thr Gln Ile Ser Gly Asn Arg Phe Thr Tyr Thr Val Pro Pro Leu Thr
298           530                      535                      540
301 Ala Tyr His Ile Val Leu Thr Thr Gly Asn Asp Thr Ser Pro Val Glu
302 545                      550                      555                      560
305 Gly Pro Glu Ser Phe Lys Leu Lys Ala Glu Ala Gly Asp Gly Lys Val
306           565                      570                      575
309 His Leu Ser Trp Asp Ala Ser Ser Gly Val Val Gly Tyr Ser Val Gln
310           580                      585                      590
313 Arg Ala Thr Asp Glu Asn Gly Pro Phe Thr Ala Val Ala Ser Asn Leu
314           595                      600                      605
317 Thr Glu Thr Ser Tyr Thr Asp Thr Asn Val Thr Asn Gly Thr Ser Tyr
318           610                      615                      620
321 Tyr Tyr Lys Val Thr Ala Lys Thr Asn Lys Gly Ser Ser Glu Ser Asn
322 625                      630                      635                      640
325 Ile Leu Lys Ala Val Pro Lys Met Pro Val Asn Gly Pro Ala Arg Tyr
326           645                      650                      655
329 Glu Ala Glu Glu Gly Thr Leu Lys Gly Thr Ile Val Glu Ser Ser Gly
330           660                      665                      670
333 Thr Gly Tyr Ser Gly Ala Gly Tyr Val Thr Asn Phe His Asn Pro Gly
334           675                      680                      685
337 Asp Ser Leu Thr Met Thr Ile Gln Ala Pro Thr Ala Gly Leu Tyr Asn
338           690                      695                      700
341 Leu Thr Ile Gly Tyr Arg Ser Pro His Asp Asp Lys Arg Thr Asn Phe
342 705                      710                      715                      720
345 Ser Leu Asn Gly Lys Ala Phe Gly Glu Leu Leu Leu Lys Lys Thr Ala
346           725                      730                      735
349 Asp Phe Lys Glu Thr Ser Gly Gly Lys Val Leu Leu Asn Ala Gly Ala
350           740                      745                      750
353 Asn Thr Ile Ser Phe Glu Thr Gly Trp Gly Trp Tyr Asp Ile Asp Tyr
354           755                      760                      765
357 Val Arg Leu Glu Pro Ala Ala Asp Arg Pro Pro His Ala Val Thr Lys
358           770                      775                      780
361 Thr Leu Thr Asn Pro Asn Ala Thr Val Glu Ala Lys Ala Leu Met Asn
362 785                      790                      795                      800
365 Tyr Leu Val Asp Gln Tyr Gly Lys Asn Met Leu Ser Gly Gln Glu Glu
366           805                      810                      815
369 Ile Asn Glu Ile Asp Trp Leu Gln Ala Asn Val Gly Lys Lys Pro Ala

```

## RAW SEQUENCE LISTING

DATE: 04/24/2002

PATENT APPLICATION: US/09/784,554B

TIME: 15:50:31

Input Set : A:\seq.ST25.txt

Output Set: N:\CRF3\04242002\I784554B.raw

```

370          820          825          830
373 Ile Ala Ala Leu Asp Leu Ile Asp Tyr Ser Pro Ser Arg Ala Glu His
374          835          840          845
377 Gly Leu Ser Ser Thr Glu Ala Glu Lys Ala Ile Ala Trp Asp Lys Gln
378          850          855          860
381 Gly Gly Ile Val Thr Phe Ala Trp His Trp Asn Ala Pro Lys Gly Leu
382 865          870          875          880
385 Ile Asp Thr Gln Gly Lys Glu Trp Trp Arg Gly Phe Tyr Ala Asp Ser
386          885          890          895
389 Thr Thr Phe Asp Ile Glu Tyr Ala Met Asn His Pro Glu Ser Glu Asp
390          900          905          910
393 Tyr Lys Leu Leu Ile Arg Asp Ile Asp Val Ile Ala Gly Gln Leu Lys
394          915          920          925
397 Lys Leu Gln Asp Ala Lys Val Pro Val Leu Phe Arg Pro Leu His Glu
398          930          935          940
401 Ala Glu Gly Lys Trp Phe Trp Trp Gly Ala Lys Gly Pro Glu Pro Val
402 945          950          955          960
405 Lys Lys Leu Tyr Ile Leu Met His Asp Arg Leu Thr Asn Val His Lys
406          965          970          975
409 Leu Asn Asn Leu Ile Trp Val Trp Asn Ser Val Ala Pro Asp Trp Tyr
410          980          985          990
413 Pro Gly Asp Glu Tyr Val Asp Ile Leu Ser Phe Asp Ser Tyr Pro Gln
414          995          1000          1005
417 Ala Gly Asp Tyr Ser Pro Gln Ile Ser Lys Tyr Glu Asp Leu Val
418          1010          1015          1020
421 Ala Leu Gly Lys Asp Lys Lys Leu Val Ala Met Ser Glu Asn Gly
422          1025          1030          1035
425 Pro Ile Pro Asp Pro Asp Leu Met Lys Ala Tyr Gln Ala His Trp
426          1040          1045          1050
429 Ser Trp Phe Ala Thr Trp Tyr Gly Asp Phe Val Arg Asp Gly Lys
430          1055          1060          1065
433 Gln Asn Ser Leu Glu His Leu Lys Lys Val Tyr Asn His Pro Asn
434          1070          1075          1080
437 Val Ile Thr Leu Asp Glu Leu Pro Thr Asn Leu Lys Thr Tyr Gly
438          1085          1090          1095
441 Ile Thr Glu Gln Pro Ser Val Pro Gly Ser Phe Thr Leu Asn Ala
442          1100          1105          1110
445 Ala Gly Glu Thr Ala Lys Val Ser Leu Ser Trp Thr Ala Ser Ala
446          1115          1120          1125
449 Asn Ala Lys Ser Tyr Glu Val Lys Arg Ser Thr Thr Glu Asn Gly
450          1130          1135          1140
453 Ala Phe Ala Thr Val Ala Ser Asp Val Tyr Gly Ser Ser Tyr Thr
454          1145          1150          1155
457 Asp Thr Ala Val Thr Ala Asp Thr Thr Tyr Tyr Tyr Gln Val Val
458          1160          1165          1170
461 Ala Lys Asn Asp Ala Gly Gln Thr Leu Ser Asn Thr Ala Ser Ala
462          1175          1180          1185
465 Met Pro Lys Ala Asp Thr Gln Gln Pro Thr Thr Gly Leu Leu Leu
466          1190          1195          1200

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/784,554B

DATE: 04/24/2002  
TIME: 15:50:32

Input Set : A:\seq.ST25.txt  
Output Set: N:\CRF3\04242002\I784554B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 715,716,717,718,719,720,721,722,723,724,725,726,727,728,729  
Seq#:5; N Pos. 730,731,732,733,734,735,736,737,738,739,740,741,742,743,744  
Seq#:5; N Pos. 745,746,747,748,749,750,751,752,753,754,755,756,757,758,759  
Seq#:5; N Pos. 760,761,762,763,764,765,766,767,768,769,770,771,772,773,774  
Seq#:5; N Pos. 775,776,777,778,779,780,781,782,783,784,785,786,787,788,789  
Seq#:5; N Pos. 790,791,792,793,794,795,796,797,798,799,800,801,802,803,804  
Seq#:5; N Pos. 805,806,807,808,809,810,811,812,813,814,815,816,817,818,819  
Seq#:5; N Pos. 820,821,822,835  
Seq#:6; Xaa Pos. 239,240,241,242,243,244,245,246,247,248,249,250,251,252  
Seq#:6; Xaa Pos. 253,254,255,256,257,258,259,260,261,262,263,264,265,266  
Seq#:6; Xaa Pos. 267,268,269,270,271,272,273,274,279

## VERIFICATION SUMMARY

DATE: 04/24/2002

PATENT APPLICATION: US/09/784,554B

TIME: 15:50:32

Input Set : A:\seq.ST25.txt

Output Set: N:\CRF3\04242002\I784554B.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:1037 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:660  
L:1039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:720  
L:1041 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:780  
L:1157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:224  
L:1161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:240  
L:1165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:256  
L:1169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:272